Orientation and More

the CANNON

September 11, 1981 | University of Toronto Engineering Society | Vol. IV No. 1

Class of 8T5 Joins Skule

An anxious first year student applauds a speaker during Orientation Day activities in September, 1980.

With registration completed and orientation events underway, Skule welcomed the class of 8T5 to the Faculty of Engineering's 108th year of operation. The majority of these new students come directly from grade 13 in Ontario high schools while others arrive from the remaining Canadian provinces. A small number of students arrive from other countries from around the world. These visa students total about 5 per cent of the first year enrollment. According to the Faculty Admissions Office, it is the reputation of Engineering at the University of Toronto which attracts these students, not the reputation of our country.

Can this reputation be maintained through the declining enrollment facing today's universities? The answer is most emphatically yes. While overall enrollment is dropping, the University of Toronto specifically remains one of the few universities to have its number of applications rise. The Faculty of Applied Science and Engineering remains very popular, getting more than 4000 applications for approximately 750 first year spaces. Standard procedure for handling these applications in the past has been to review the students by merit and mail out acceptances to almost 1200 of the hopeful freshmen. On Registration/Orientation Day, a class of 700 to 800 students would usually attend.

Althougb each department has its own statistics for entering freshmen, the selection of students shows engineers are among the intellectual elite among campus faculties. The average grade 13 mark of first year students from Ontario currently hovers about the 83 per cent point while the cut-off mark establishes itself at or near 70 per cent. Those who attended grade 13 and received less than 70 per cent are admitted only as special cases. It is also important to note that this impressive schoolwork is achieved with 5 demanding grade 13 subjects required for admission, the subjects being: Calculus, Algebra, Functions and Relations, Physics, and Chemistry.

Debate is still ensuing concerning the suggestion of requiring a sixth grade 13 subject demonstrating literary competence. Currently, literary performance is monitored by means of the English Proficiency Test written by first year students on orientation day. Since all lectures are given in English and all work handed in for grading is expected to be in Englisb, it is for both the professor's and student's benefit that the students be literate in English.

Althougb Skule's new group of freshmen has already come through a great deal, they still have a long way to go before graduating as engineers. Regardless of the quality of the entering students, typically forty students withdraw by November for a variety of reasons; twenty to thirty more may be required to leave after the Christmas examinations. Many factors combine to leave an expected graduating class of 450 from a typical first year class of 750. These statistics seem almost unbelievably harsh, but the fact is most students do not fail out, rather they leave engineering at U of T for either other courses, employment, or even other schools.

Every extracurricular organization intends to be on hand during orientation to encourage first year men and women to join. The LGMB, the Communications Committee, the Athletic Association, all the other groups active in the Society will be searching to find new people to fill the vacancies left by last year's graduates.

Eng Soc and SAC Plan Giant Homecoming-Oktoberfest

The Engineering Society and the Student's Administrative Council are completing plans for a gala Oktoberfest/Homecoming celebration on October 2 and 3. The extravaganza will take place under three large tents on the Front Campus, and would include live Oktoberfest-type entertainment. A crowd of 1500 is expected both Friday and Saturday nights.

Tickets for the pubs will probably cost around five dollars per night. A package deal is being developed that would allow admission both nights for around eight dollars, but the cost has not yet been finalized. The event is planned in conjunction with the Homecoming Parade and football game, scheduled for the afternoon of Saturday, October 3. The plan is to include admission to the Homecoming game in the purchase of an Oktoberfest ticket. All proceeds of tbe event are earmarked for the Varsity Arena Restoration Fund.

Organization of the event has taken a considerable effort. Wayne Levin, Eng. Soc. Social Committee Chairman, says around 140 people will be

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This Month

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the CANNON

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THE CANNON is a publication of the University of Toronto Engineering Society. It is published monthly to announce Eng. Soc. events, discuss Faculty and University matters, and present technical information of interest to Engineering undergraduates. Subscriptions are available, call Ella at 978-2917. Anyone interested in helping with THE CANNON is most welcome.

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Tradition and the Engineer

by Steve Roberts and
John Samochin
LGMB

Every year the Engineering Society of the University of Toronto holds certain events to initiate the first year men and women into the rites of Skule. Moreover, there are many events held annually simply because "we did them last year." This is, in its most simple form tradition. In the last few years, certain problems have arisen with regard to the Engineering Society's traditions. In a nutshell, almost nobody understands tradition. With the exception of a few individuals who have seriously pursued the inner workings of the Eng. Soc. and the history behind it, the student body of engineers tends to be totally unconcerned toward tradition. More importantly, few care to find out.

In almost every aspect of engineering life at Toronto, tradition plays an important part. This cannot be denied when one considers even orientation itself. The ride of Godiva. the Scavenger Hunt., Raids Night (a.k.a. Cloak and Dagger Night) have been done for many years. Traditional events do not stop there, but continue throughout the entire school year. These events include the Slave Auctions, Chariot Race and Oktoberfest.

The problem can best be illustrated by pointing out how certain traditions have been changed somewhat and what they have lost. The Chariot Race was held on or near Groundhog Day. This wasn't merely for the humorous possibilities but because the ground softens at that time (just before the fence goes up around the Front Campus) so that participants would have fun and get extremely muddy in the process. The contest in modern times has been pushed back to the middle of January during Godiva Week. The point is not whether Engineering Society executives are irresponsible or not, but that traditions are fragile; they can die without the realization that they are lost.

The loss of tradition may not seem a monumental disaster, but it has far reaching effects. It is one of the things that sets UofT engineers apart from anyone else. Not only do we attend one of the two oldest schools of engineering in Canada, we have the oldest Engineering Society in Canada. Over the last century, the engineers at UofT have built an identity. The identity is intangible but it manifests itself in each traditional ceremony or event that occurs.

Carrying on tradition not only gives each engineer an identity, it instills a sense of history and direction. After leaving school, the graduate will not face the unknown alone because he is part of a group identified as "the Engineers". Carrying out traditions establishes this identity and image with the individual.

Tradition is more, however, than just a means of acquiring identity. There are reasons behind each one for those interested in finding out. For example, stripping the pants from the Bandleader at the first football game and the President (not this year) in from of the nurses is simply a means of humbling these people.

The Brute Force Committee had traditionally pulled campus pranks that were intelligent, creative, constructive, and humorous. This group presently has a reputation for destruction due to some incidents with overzealous freshmen. The Toike Oike started out as a serious paper with humorous tidbits to fill spaces in the pages. The humour was more popular than the articles, and it finally went over to an all-humour format. The "esprit de corps" that engineers possess is also an important tradition.

If one accepts that tradition is important, then he realizes that it is our only direct link to the venerable past of Skule. That doesn't mean that all traditions should be preserved just for their own sake. The Engineering Society, although nearing its 100th birthday, remains young and vibrant with life. The creative aspect of Skule remains strong because there is a nmixing of tradition and progress. Godiva Week, held in January, is a tradition only two years old, but it encompasses the Chariot Race which dates back many years. Change is occurring within the Toike to make it a more respectable yet humorous newspaper. Intelligent decisions must always be made concerning the continuation, or changing, of traditions and this can only be done if tradition is understood. This question concerns all Skulemen because it is they who participate and make the traditions a reality.

Getting Involved

As this editorial was being written, a third year engineering student happened to drop by the Engineering Society. "Ah," he commented, "I see you're writing your editorial." I agreed and told him that I was having difficulty finding a topic both relative to orientation and not yet mentioned in the newspaper.

"Well let me tell you a short story that may give you an idea," he started. "When I was in second year, I applied for a job with Imperial Oil. Later in the year, I was one of the few from my class to get an interview. Now most of my classmates applied similarly and I was surprised that while I was in the middle of the class academically many of the smarter people didn't even get an interview. This started me onto wondering as to the qualifications employers look for in hiring people.

Anyway, at the interview, I got the chance to ask the company representative how people are selected for jobs. He told me that it was all in the interview. The student's skill in communication and the impression he left tipped the scales between success and unemployment. So I asked him how a person was selected for an interview.

'Each person sends in a resume,' he answered, 'and this gives us a fair idea of what we can expect of him. We grade these resumes out of thirty. A mark out of ten is assigned for academic performance; ten more marks are assigned to previous experience and its relation to the present job opening. The last ten marks are for extracurricular activities.'

One third of the student's employment chance resting with extracurricular interests? I was surprised and persued the issue. 'Engineering is a people profession,' was his reply. 'Working with any medium to large size company, you will after ten or twenty years move up into management. This means that you will be primarily working with people. Companies try to find people with management potential; anything that you do to show leadership (such as working in an Engineering Society) or teamwork (in athletics) outside of academics enhances your employment potential.'"

"I hope this gives you some idea for your article," he said as he left.

Outdoor Oktoberfest Returns

Oktoberfest was held in tents for the last time in 1977. Outdoor oom-pah-pah will be returning to Front Campus this year in conjunction with Homecoming.

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required to work at the pub, serving beer and managing the crowd. Help will also be required in pitching the tents, setting up the washroom facilities, and running wires for lighting and sound. Some estimates of costs run as high as $12,000, even before the cost of beer is considered.

The Engineering Society developed the idea for a large-scale Oktoberfest in late spring and approached SAC because the costs and risks associated with an event of this scale were too large to be borne solely by the Society. It took a fair amount of persuasion to convince campus authorities to allow the event, V.P. Activities Joe Facca says the application for a liquor permit was filed in late June. The permit was received only last week. A building permit for the tents must still be obtained.

George Kash and the Oktoberfest Express will be playing the pub on the Saturday night. Kash and his band are very popular at the Eidelweiss at Ontario Place, and put on an excellent show at last year's Oktoberfest at Hart House. Kash is preparing a band to play to the Friday night crowds, as his own band was already booked for the evening.

Because of the large role the Engineering Society is playing in organizing the event, a promise has been secured from SAC that engineers will get first access to a large block of tickets. Wayne Levin says between 500 and 600 tickets will go on sale at the Engineering Stores and will be available only to engineers.

In past years, two other Oktoberfests have been held on the front campus. One was a financial success, the other lost a considerable amount of money. Organizers of Oktoberfest 8Tl hope that a considerable amount of money can be raised to aid in the Varsity Arena Restoration.

Female Shiner collects donations for Cystic Fibrosis research. Put a shine on and give a kid a breath of life at Shinerama.

Shine On for CF Kids

In an effort to relieve classroom monotony, to introduce first year men and women, and to explore downtown Toronto, the University of Toronto will he holding its annual Shinerama campaign on Saturday, September 19. Shinerama is a nation-wide program to raise money for the research and treatment of Cystic Fibrosis(CF), the most common incurahle children's genetic disease.

This disease affects fluid production in the hody so that those afflicted must take up to 50 pills and capsules daily to regulate their respiration, digestion and prevent lung infection. It affects one in 1800 children horn. In Canada, one in twenty people is a carrier of the recessive CF gene and as yet there are no reliahle tests to detect the CF gene in parents or CF in unhorn children.

The disease was first identified in 1938 where afflicted children died in childhood from either malnutrition, dehydration or pneumonia. With modern medical research funded hy such programs as Shinerama, CF victims are living into their twenties and thirties. This is encouraging, hut more research is needed. Present treatment is still far out of the financial reach of most families and must be subsidized.

This is Shinerama's 18th year in Canada collecting money for continued research and treatment of those unfortunate children. The University of Toronto with SAC's support has helped in most of those campaigns with the faculties of Nursing and Engineering dominating in turnout for the past 7 years.

Unfortunately, with Engineering and Nursing having such large and enthusiastic turnouts for the event, few other faculties and colleges have gotten involved except for several fraternities and sororities. Most likely, this is due to the mistaken belief that Shinerama is exclusive to the engineers and nurses.

This cliquish image is one that 1981's organizers wish to dissuade. This year the Shinerama co-ordinators are Sherry Pajari (Nursing 8T2) and Wayne Levin (IND 8T3). All the other colleges and fraternities are especially invited to participate and help shine shoes. To show wbat can be done with large turnouts, the University of Western Ontario raised almost six times that donated hy the University of Toronto last year. This was done in London, a city only a fraction of the size of Toronto.

In Shinerama the object is to collect money for CF and have lots of fun doing it. This is done through either shining the contrihutor's shoes or hy convincing them to donate. Donations are facilitated hy emphasizing the charitahle aspects of Shinerama.

Shiners are assigned in mixed pairs and are free to harass passers by. Not only is a pancake breakfast and transportation (inside customized vans) provided, hut each shiner gets a shoe shine kit and a free ticket for the Shiners' Nursing Puh beld in the U.C. Refectory that evening. The LGMB is even on hand to circulate about Yonge Street raising Shiners' spirits. They also coerce the citizenry into donating or else facing the consequences of an impromptu concert.

Both freshmen and upperclassmen are invited to participate in Shinerama and its worthy cause.

U of T Renovates Computers

by John Samochin
ENG SCI 8T3

For the last several years, the University of Toronto has invested in expanding the space and facilities of several faculties. These projects included further equipment for graduate research, the huilding of Roharts Library, the Warren Stevens Athletic Complex, the Sandford Fleming restoration and the University College modernization. Because of these high priority undertakings, and others like them, undergraduate computer facilities have remained static.

When the hatch processing system was installed in the 1960's, it was up to date and even advanced with respect to the prevalent computer usage technology. Since the system has not been changed, it is now ten to fifteen years out of date with modern technology. Using the punch card systems found in the Engineering Undergraduate Terminal (EUT), Arts and Science Undergraduate Terminal (ASUT), and the temporary Physics Undergraduate Terminal (PUT), students have faced the frustrations of the High Speed Joh Stream.

The computer power of UofT is phenomenal with the presence of two main frame IBM 3033 computers and many support machines. However, the input/output systems presently used are virtually ohsolete. This computer update problem has heen taken to President Ham himself, and this year definite computer terminal modernization will occur. The following is an approximate timetable for the UofT's computer network overhaul:

September 1, 1981:

For high level Electrical Engineering and Computer Science courses, a new interactive access called the UNIX VAX 750 will he installed in the Sandford Fleming huilding. This system will serve the St. George campus and have remote terminals at Erindale and Scarborough.

A new interactive access to the HSJS through the VAX 780 should be installed. There will also be 50 to 60 cathode ray terminals (CRT's) installed on the St. George Campus. Although location may not he permanent, the terminals were slated to be placed in the basement of the Sir Daniel Wilson residence (at the south east corner of St. George and Harbord Streets). These terminals however will provide only interactive editing, keeping of files on magnetic disk and submission to the computer; output will not be at the terminals hut at a separate printer. While this small number of edit and submit terminals are at U. C., the ASUT and EUT will retain their present structure with keypunches. All of these terminals will still process jobs in the "batch" procedure organized for the present HSJS.

January 1, 1982:

The undergraduate terminals will he expanded with the addition of a VAX 750 and approximately 30 interactive edit and submit terminals at both Erindale and Scarborough.

Septemher 1, 1982:

The VAX 750 will be upgraded to a VAX 780 and roughly 80 terminals will be added on the St. George campus to hring the total number of interactive terminals to almost 160, the numher required as projected by the computer science task force studying the situation. With this new system, it is yet undecided whether or not output will be availahle on the CRT screens. An additional feature of browsing capahility at one's CRT may also be availahle but may he deemed necessary only for advanced course work. These terminals may even allow access to the General Purpose Job Stream.

In the more distant future, an interactive program without APL is desired by the U of T's computer science department, but no concrete plans have been made. The DEC-10, a small interactive computer system will he altered, either heing upgraded with more memory or resold. Even though the DEC- 10 has little resale value, to keep this system, it must become much more viable than it is presently.

These plans may sound wonderful, but it is important to remember that they can proceed only as budget allocations allow.

Skule Delegates Attend National Women's Convention

hy Lee Scott
Women's Committee Chairman

The weekend of May 23/24 saw the First Canadian Convention of Women Engineers held at the Royal York Hotel in Toronto. Despite forecasts of an attendance of 150 women, the final count was over 300. Many female engineering students from U of T attended this event.

The Convention was extremely well organized by a group of women officially recognized as WISE—Women In Science and Engineering. Headed by Claudette McKay-Lassonde, an engineer with Ontario Hydro, the convention was a major success. It proved to be an excellent opportunity for working women engineers to share experiences, gain support and exchange ideas on engineering, and career opportunities as well as family and personal planning. For the female engineering student, the convention was a good chance to gain insight into the possihilities of being a practising engineer in a predominantly male profession.

During the course of the convention there were many varied speakers including women engineers, business consultants, psychologists and management specialists. A notable speaker was our own Donna Wis, a professor from the University of Toronto and a trained engineer. Ms. Wis discussed a longitudinal survey completed between 1955 and 1976 which delved into the backgrounds, interests, lifestyles and motivations of the female engineer. Many interesting pieces of information resulted from this survey which revealed that 70 per cent of all female graduates were licensed to practice while others went into law, postgraduate work, MBA degrees and teaching. The private sector companies such as heavy industry, mining and the like employ far less women than government or educational institutions.

Topics of various lectures included those related specifically to the technologies of engineering such as safety systems of the nuclear reactor, environmental engineering and starting your own engineering consulting firm. Other lectures dealt with problems related more directly to the woman in engineering—"Stress and the Superwoman" and "Affirmative Action".

Perhaps the most controversial discussion was led by the panel of women dealing with affirmative action. The goal of this demanding group was the establishment of "target" numbers of women in specific positions. It was generally conceded that "systematic discrimination exists widely"; affirmative action members would like to see a minimum percentage of women employed with additional initiative programmes instituted hy the government. It was noted that since 1975, Ontario has had affirmative action groups in the governmental sphere.

The convention was closed with a lengthy fashion and make-up show geared to the professional woman. Generally it did not seem to be greeted with much enthusiasm hy the engineers present. Good news was announced by the organizer of the convention, Mrs. Lassonde, at the end of the show when she stated that the engineers from Quebec had taken the responsibility of organizing the Second Canadian Convention for Women Engineers—to be held in 1983.

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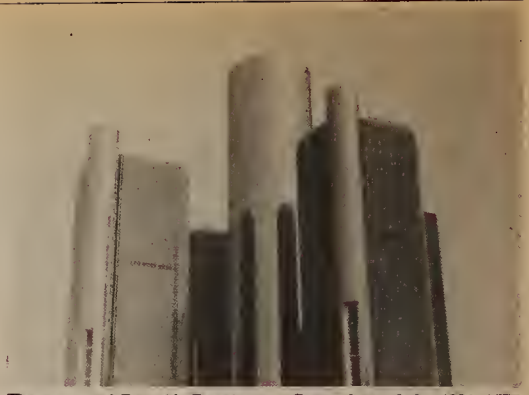

The towers of Detroit's Renaissance Centre housed the 1981 AIIE convention.

AIIE Meets in Detroit for 1981

by Ira Rotenberg
IND ENG 8T3

Detroit's famous Renaissance Centre was the site for the American Institute of Industrial Engineers (AIIE) Annual Spring Conference held May 17-19, 1981. More than 2000 students and professional industrial engineers were present for three days of displays, seminars, and tours.

Seminars included traditional industrial topics such as Industrial Relations, Work Measurement and Methods Engineering, Production Control, Operations Research, and Human Factors. Also included were demonstrations of touch screen devices, robotics, and Japanese Productivity.

A small delegation from Canadian chapters of the AIIE was present for the conference. Ira Rotenberg (IND 8T3) and Spiros Pantziris (IND 8T1) were the two delegates from the U of T's AIIE chapter. Both students expressed a great deal of pleasure witb this year's conference. The opportunity to view applications of industrial engineering metbods and being able to socialize with their American colleagues were of great value to both men.

Next year's conference is being held in New Orleans. All industrial engineering students are urged to attend.

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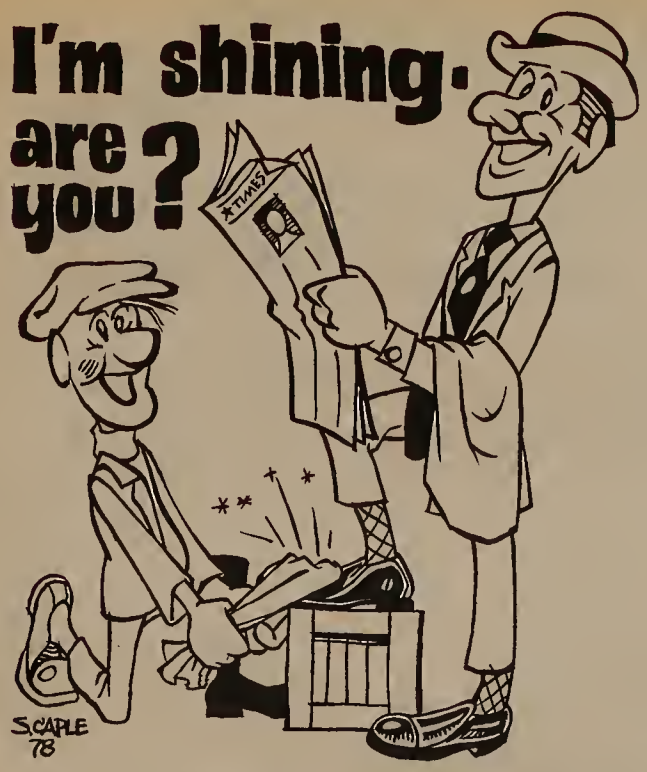

Bed Race: Friday, Sept. 18, 12 noon at Sid Smith
SHINERAMA: Saturday, Sept. 19

Eng Soc Opening

The Engineering Society is accepting applications for the position of:

Blue and Gold Chairman

Letters of application must be received by the Vice President of Activities by 5:00 p.m., Friday, September 18, 1981.

Alumni Band Issues a Challenge

The Shameful Deed occurred at a press conference called last Wednesday to discuss the Varsity Blues football team. The U of T Alumni Association (a collection of former Artsmen for the most part) insulted the dignity of the Lady Godiva Memorial Band and indirectly the rest of Engineering, stating "the LGMB could not hold a candle to" their newly rebuilt Blue and White Marching Band. They even had the unmitigated gall to suggest they have more school spirit!

This contradicts the common knowledge that engineers are the most spirited people on campus. The truth must he known! The Band needs your support to prove to these upstart Artsmen that Engineering really has the spirit; come out to the homecoming game, even if it is the only one you see.

The game is definitely worth going to. The Blues will he battling U of T's traditional rivals, the Western Mustangs, in an ex-citing grudge match. This year the Blues stand an even better chance of winning the College Bowl over last year.

The Band's usual contingent will he augmented with infamous alumni, making it one of the hest outings ever. In fact, they will probahly sound even hetter than their usual superlative hest (?). In answer to the alumni answer, the Band will cleverly arm each memher with a candle. We need you, however, to cheer the Blues on to victory, to sing along with the Band and to crush the feehle Artsmen's hand.

If you like good foothall, you will love this game; Western is the defending O.U.A.A. champion, while Toronto was ranked numher one. Both have many All-Canadian players and are the cream of Ontario collegiate foothall. Leading the Blues will be Dan Feraday, U of T's CFL calibre quarterhack. See you there on Saturday Octoher 3 immediately after the Homecoming Parade.

EngCom

Who are we?

We are the group of people who put together all of Skule's publications. These publications include the Handbook, *Book of Skule* (Yearbook), *the CANNON*, *Toike Oike*, and special projects such as high school liaison pamphlets. EngCom encompasses publication editors, photographers, writers, and layout hacks; those that get together and sometimes spend long hours turning out the final product.

Isn't that just the Communications Committee?

Yes and no. Few of us actually sit on the Engineering Society Council (only the chairman) with the majority of us involved through sheer interest. We have adopted the name "EngCom" because it was felt that the scope of work being produced went far beyond that of typical internal publications. (We also did not want people thinking of us exclusively as the *Toike* staff.)

So what?

EngCom is composed almost entirely of upperclassmen and in the next two years most of us will have graduated (with a little luck). This means that a whole new group of people will have to start from ground zero to again build up the standards of engineering publications.

We don't want this to happen.

There is no reason that it should. The creative talent is here now, but there are not enough people in the ranks preparing to take over the various publications. To solve this problem, EngCom will organize publications workshops, probably in conjunction with *Toike* make ups and *CANNON* work sessions. If you are interested in working with us, why not come out and see what we do?

What's in it for me?

A lot. Not only do you meet some of the most interesting people on campus but you get your name in PRINT. This leads to recognition or at least infamy. You develop an ability to work as a team, and to meet deadlines, and it stands out on your job resume. You can gloat to your friends and even partake of EngCom subsidized meals.

Can't somebody else do it?

No. Where would we be if everyone thought this way? We are presently facing staffing problems. Every year *the CANNON* has to find new writers and layout people. The late great writers of the *Toike* have left making this a major rebuilding year. As of this writing no one has expressed an interest in becoming the *Book of Skule* editor. The problem is real.

If you're worried about sacrificing yourself academically for publication, remember that your contribution is voluntary. You can help when you are able to.

Say I'm interested. What do I do?

Drop a note with your name and phone number in the mail box of the publication you want to help with. These mail boxes are in the Engineering Society/Stores, Third Floor, Old Metro Library. If you're not sure what you can do and for whom, leave a note in the Communications mail box. Call us or we can call you.

Eng. Soc. News

Men's haskethall is only one of many Skule sports starting in the next few weeks. Sign up for recreation and exercise.

Everyone Can Participate in Skule Athletics

by June Li
CHEM ENG 8T2

Who won the T. A. Reed Trophy last year? Not Phys. Ed., not Dents, not Vic, but SKULE of course!! The T. A. Reed Trophy is awarded annually to the faculty or college with the most participation and achievement points in men's intramurals. Last year for the first time ever, Skule also captured the Marie Parkes Trophy, the women's intramural trophy. Skule certainly has a reputation for excellence in inter-faculty sports. Last year was a particularly good year. For the First time in 26 years, the Engineers won the Mulock Cup, the oldest football trophy in North America!

But you don't have to be super-competitive or super-skilled to participate. For example, men's volleyball has four levels of play and we entered five teams last year. The same goes for women's sports. There are usually at least two levels of play: competitive and recreational. It is more important to come out and have fun than to win. In hockey last year, we had more than 20 recreational-type hockey teams, mainly class teams. They made up more than three-quarters of the recreational league. There were also two competitive teams.

There are other sports on a more individual level. In the fall, there are competitions such as track and field, swimming, and tennis. In the spring, there's badminton. Since U of T intercollegiate athletes on these teams cannot participate in these tournaments, the level of skill required for a decent showing is not too high.

Within Engineering itself, we are planning to organize at least one engineering volleyball tournament, a soccer tournament, and perbaps a hockey tournament, and we'll try to organize anything else you'd like to see. F!rosh! Get a team together and challenge some upperclassmen!

Sports commissioners can be contacted by leaving notes in their mail boxes at the Engineering Stores, Third Floor, Old Metro Library. Sign-ups and meetings for fall sports will be held within the next two weeks. Look out for posters and notices in *the CANNON*, *Toike Oike*, and *Tiny Toike*. REMEMBER, you can join a team even after the sign-up date, but before the playoffs. Coaches are always needed. If you would like to coach, or manage, please inform EAA President, Dale Kerr, or the proper commissioner as soon as possible.

COME OUT AND PARTICIPATE—HAVE A GREAT YEAR!

Eng Soc Forms Centennial Committee

The Engineering Society Council has formed a committee to prepare for the celebration of the Society's one hundredth anniversary. The committee will seek suggestions on ways to commemorate the centennial, and will initiate planning for the events.

The Engineering Society was formed in 1885, and is Canada's oldest engineering organization. The Society's original purposes were to encourage research in engineering, and to disseminate the results of this research to its members. It's focus has gradually changed over the last 96 years to concentrate on social, recreational, and athletic activities.

John Voss, chairman of the Centennial Committee, says that he hopes to get the ground work underway this year, well ahead of the celebrations in 1985. "The centennial of the country's oldest engineering organization is an important event. Suitable commemorative events will take a lot of planning, and if we don't start now there'll be that much more work for next year's group."

The committee will research the Society's past, and talk to alumni, faculty members, and the Faculty and University archivists in an attempt to decide what type of events should be held in 1985. A few ideas have already surfaced. "Some suggestions include an enormous reunion, and perhaps a lecture series. Personally, I'd really like to see some sort of multi-disciplinary design project, along the lines of the Misses Purity," said Voss. Miss Purity I and Miss Purity II were two very successful clean air cars in the early 1970's. Staff and students of the Faculty of Applied Science and Engineering were responsible for their design and construction.

The Committee's activities have not yet begun in earnest, and members of the Faculty or the Society who are interested in the Society's history are invited to join the Committee. "We're especially hopeful that some first year students will get involved. They'll be with this thing the whole way through, and the celebrations will be in their graduating year. They could provide the essential continuity," says Voss.

The committee's first meeting will be in late September.

Homecoming October 3

The University of Toronto's Annual Homecoming Parade and football game will be held on Saturday, October 3. The parade starts just before noon on Devonshire Place and, ends around 1:30 at Varsity Stadium. At 2:00, the University of Western Ontario Mustangs take on the Varsity Blues.

About fifteen colleges, faculties and fraternities are expected to participate in the parade. The route to be followed is the same as last years'.

A theme for the parade has not yet been announced. Construc-

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In its third year

Design Competition at UofT

by John Samochin
ENG SCI 8T3

Engineering design is a fascinating process. Those who have taken any of the design courses from the Cockburn Institute realize that there is much more to design than doodling until a good idea is chanced upon. Because design plays such a large part in engineering, the Ontario Engineering Design Competition (OEDC) bas been organized. This annual event allows individuals to show off their prowess at real life design problems, entrepreneurship and engineering communication.

This year the OEDC will be held at the University of Toronto. In its two year history, the competition has been hosted by Queens' University and last year by Waterloo. Both schools attracted impressive displays from engineering students hailing from all parts of Ontario.

Botb the OEDC and Engineering at U of T stand to gain by bolding the tournament here. First, U of T Engineering should gain a somewhat better reputation on campus. The current image of engineering students in campus is very low with many students considering engineers as boorish, uncultured louts with a fondness for destruction, crude "humour" and near illiteracy. Altbough nothing is further from the truth, certain incidents and exceptionally vocal campus groups have combined to build this belief. Tbe oddest part of this entire situation is that upon graduation, the engineer "suddenly" becomes a highly skilled professional possessing the respect of the community. This discontinuous cbange in character remains a mystery to this author. Hopefully, with the OEDC, the rest of tbe campus will realize that engineers are more than Philistine lummoxes and are perhaps even as "educated" as those studying pure Arts.

The OEDC has a great deal to gain as well. Following a low key approach in tbe past, the exposure it will get at U of T will be phenomenal. With the world renowned faculty participating as well as the Alumni Association observing, the competition should be firmly solidified as a significant annual event.

The Engineering Society committee in charge of tbe OEDC has been busy throughout the summer under its directors, Brett Calder and Sean Gregorio. Because of tbis work, budget appropriation was not a major concern. Sponsors and patrons from industry have already been contacted and many have responded favourably. Some of the major patrons of the competition are Ontario Hydro, Bell Canada, Northern Telecom, and Gulf Canada. Finding sponsors was originally a major concern due to tbe high cost of lodging out of town students and judges in a downtown Toronto botel. The Sutton Place Hotel appears to be the most likely location for participants of the tournament.

Plans are currently being formulated to hold the competition in the newly rebuilt and renovated Sandford Fleming building. The building is scheduled to open on December 15, 1981 while tbe OEDC will take place (tentatively) on the weekend of Marcb 6, 7, and 8. Applications to enter the competition must be returned, however, by November 20 to allow for processing and preparation for a specific number of entrants. Interested students should consider entering the competition soon.

The OEDC is separated into four divisions, the entrepreneurial category, the corporate design section, tbe explanatory communication section and the editorial communication division. An entrepreneurial design must be a new product currently not available or made exclusively outside Canada. Prototypes, althougb not required, are recommended. Corporate designs offer solutions to specific problems in industry. These problems are provided at the start of the competition in November.

The communication categories require the preparation of a 30 to 40 minute exposition on a technical subject. By an engineering explanation, the category requires that the student explain how a technological issue affects society. An editorial however takes a technological viewpoint and expresses it to persuade a listener to grasp and perhaps agree witb tbe opinion under discussion. Both categories allow time for a short question and answer period after the speeches.

Trophies and cash prizes are awarded to the winners in each section. Tbe competition however is meant to be a friendly one witb participants excbanging ideas and being impressed with eacb other's work.

University of Toronto Engineering bas done reasonably well at tbe past OEDC's. For tbe last two years, U of T has won first prize in the Corporate Design category with both of these projects being patented by the student designers.

Students wbo enter tbe competition benfit greatly. No matter how they perform in competition, tbey show the ability of assembling some project in addition to their regular scbool work load; this tells the prospective employer immediately that they are dealing witb a bigb calibre of student. Some students, after working on entrepreneurial projects, have found there is a viable market for their ideas and have sold patent rights for thousands of dollars. However, the student's constraints are time and, often, money. Thus it is inadvisable to try to construct a full scale fusion reactor in one's basement, or try to complete some otber similar monumental undertaking.

This short article is not meant as a summary of the basics of good engineering design, or even give general guidelines to the student designer. However, the University of Toronto does have as one of its many associated institutions, tbe Cockburn Centre for Engineering Design. It is a good idea to talk with its director, Prof. Hoeppner of Mechanical Engineering, or any of the professors connected to the Institute before starting on a project. They may be able to point out weaknesses, areas of work which should be allotted the most time, teach you to use a "critical path" approach to your project, or even suggest where in tbe library you should concentrate your research. The resources are bere; use them and good luck.

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Homecoming on Parade

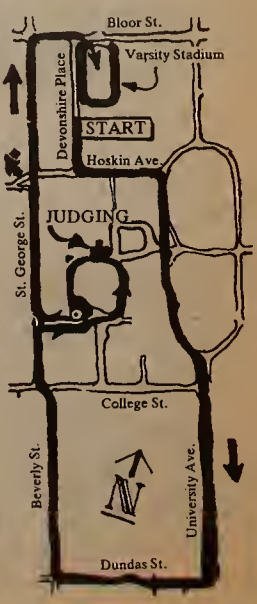
continued from page 6

tion of the floats will take place during the week before the parade, possibly in Drill Hall. A panel of judges, composed mainly of university dignitaries, will be selected. They will review the floats as they pass University College and again at Varsity Stadium. Judging of the finalists will take place a half-time, and the winner will be announced.

Arrangements are being made to include admission to the Homecoming game in the cost of tickets to the Oktoberfest. This should encourage good attendance at the game. Western is perennially a strong team, and the game should be closely fought.

Parade Route

Starting just before noon, floats will travel east from Devonshire on Hoskin Avenue, south on Queen's Park Crescent and University Avenue to Dundas Street, west on Dundas to Beverly Street, north on Beverly and St. George Street to Galbraith Road where they will proceed to King's College Circle for preliminary judging. After judging is completed, the floats will again move north on St. George to Bloor Street, then east on Bloor to the northwest corner of Varsity Stadium at about 1:40 p.m. and parade around the field until just before game time at 2:00 p.m.



Engineering This Month

If you are organizing an event, or know of one, that would be of specific interest to Eng. Soc. members, please drop a short note about it in the Tiny Tolke box in the Society offices or contact Ella at 978-2917. It will be listed here free of charge.

Friday, September 11

St. George St. Parade and Toilet Bowl Game

Join the Band at noon for a parade from the Engineering Cafeteria up St. George St. to the Sid Smith Building, where the annual Engineering—Nursing Toilet Bowl touch football game will be held.

Roamaround

Have fun with Frosh and upperclassmen from all over campus in the Nth Annual SAC Pub Crawl. This year's event features seven bands at seven pubs for only $4. Engineers start at Wetmore Hall, New College. Tickets available at the Stores (from June or her representative). Frosh get four beers for the price of three.

Saturday, September 12

Milk Pub

Alkies and non-alkies alike are invited to demonstrate the Engineer's ability to demolish more than beer and rum. Enjoy milk and cookies, then dance the night away!

Sleepover

After a wild night of partying, crash at the sleepover. Get up bright-eyed and bushy-tailed and ready for a day on the farm.

Sunday September 13

Hart House Farm

Enjoy a great day in the great outdoors at Hart House Farm in the Caledon Hills. New Band members must attend this annual one-and-only rehearsal to learn all the tunes and protect the Band leader from meeting the Very Damp Pond, since the Pond is only for executives. Last bus leaves for the Farm from Convocation Hall at 10:00 a.m. (Note: TTC subway service starts at 9:00 a.m. on Sundays. It may be necessary to arrange a car ride to get to school in time to catch the Farm buses. Or, why not sleepover?)

Monday, September 14
Tuesday, September 15
Wednesday September 16

First and Second Year Elections

Class representatives to the Engineering Society Council and Faculty Council will be elected during classes. Enquiries should be directed to the Vice President: Administration. Why not run and get involved in Skule?

Thursday, September 17

Tolke Make-Up

Participate in the construction of that infamous Skule publication. Everyone welcome. Food and drink supplied, even to non-engineers. Meet at the Stores after school.

Friday, September 18

Shinerama Bed Races

Metro Chairman Paul Godfrey will serve as official Official for a massive bed race in aid of U of T's Shinerama Campaign. Talk to your club chairman about your entry, or just come out and cheer your squad on to victory. The race starts at noon in front of the Metro Library. Entry details and more information at the Stores.

Saturday, September 19

Shinerama

Everyone at Skule is asked to come out and shine shoes to raise money for Cystic Fibrosis research. The event includes a free breakfast, rides in customized vans, and fleecing the crowds on Yonge Street, all to Band accompaniment. To top it off, a Shiners' Nurses Pub! Watch for details.

Wednesday, September 23

Council Meeting

A meeting of the full Eng. Soc. Council (all Eng. Soc. and Faculty Council reps) will convene at 5:00 p.m. in GB202.

Friday, October 2

Oktoberfest

Skule and SAC have joined forces to stage a massive Oktoberfest/Homecoming weekend. The event kicks off tonight in three tents on the Front Campus. Enjoy polkas and steins of brew, with a live Oktoberfest band.

Saturday, October 3

Homecoming Parade and Football Game

All the colleges and faculties enter their own floats and parade them through the streets of downtown Toronto. The floats are judged, Skule is disqualified, and a winner is announced.

After the Parade, the Varsity Blues take on the Western Ontario Mustangs at 2 p.m. in Varsity Stadium. Cheer them on to Victory.

Oktoberfest

Continue the party with the party as the Blues victory is celebrated on the second night of Oktoberfest. George Kash and the Oktoberfest Express provide live entertainment. Polka and oom-pa-pa the night away.

Sunday, October 4 to Friday, October 9

Second World Congress of Chemical Engineering

All Chemical Engineering Students are invited to attend the Congress to be held in Montreal. Seek further information from the Chemical Engineering Club.